INSTITUTE OF BANKING PERSONNEL SELECTION
BANK PO-2018 PRELIMS PAPER
Based on Memory

PRELIMINARY EXAMINATION (OBJECTIVE)*

Sr. No	Name of Tests	No. of Questions	Maximum Marks	Time allotted for each test (Separately timed)
1.	English Language	30	30	20 minutes
2.	Quantitative Aptitude	35	35	20 minutes
3.	Reasoning Ability	35	35	20 minutes
	Total	100	100	60 minutes

Candidates have to qualify in each of the three tests by securing cut-off marks to be decided by IBPS. Adequate number of candidates in each category as decided by IBPS depending upon requirements will be shortlisted for Online Main examination.

INSTRUCTIONS

(i) All the sections are available in English only, and the time suggested above for each test is not for guidance, you have to follow the above mentioned time.

(ii) Do not use calculators, or any electronic medium for calculations. You may take a clean sheet of paper for rough work and all calculations must be performed manually by the candidate.

(iii) There will be penalty for wrong answer marked by you in the objective tests. There are five alternatives in every question of a test.

(iv) For each question for which a wrong answer has been given by you, 1/4 or 0.25 of the marks assigned to that question will be deducted as penalty. If a question is left blank, i.e. no answer is given by you, there will be no penalty for that question.

(v) There will be a cut off for each section and an overall cut off as well. Hence, your aim should be to answer maximum number of attempts in all three sections.

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ENGLISH LANGUAGE

Directions (Qs.1-3): In these question two columns I and II and three sentences are given which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match Column I with Column II so that the sentences formed are both meaningful and grammatically correct and choose the appropriate option as the answer.

1.

Column - I	Column - II
A. It is important to follow all the rules and	D. depend on agriculture for their livelihood
B. The people of rural areas are predominantly	E. the world have become highly uncertain
C. The climatic conditions in many place around	F. regulations in order to minimise the risks

(1) A-E, B-F and C-D   (2) C-F   (3) B-D, A-E and C-F
(4) A-D   (5) A-F and C-E

2.

Column - I	Column - II
A. Almost a decade after his ascent to the top	D. against its chief general manager in the risk management department
B. The decision to oust the company's board	E. were taken by CEO after a series of meetings
C. The company has initiated disciplinary proceedings	F. he tumbling down under the weight of serious allegations

(1) C-D   (2) B-F   (3) A-F and C-E
(4) A-E and C-F   (5) A-D, B-F and C-E

3.

Column - I	Column - II
A. The range of the rifle may not be much	D. but it is lightweight and very easy to operate
B. He had to be hospitalized suddenly as he	E. several groups of young trekking are seen there during monsoons
C. The fort is very popular for trekking and	F. fainting during a field trip to a village.

(1) A-F and C-D   (2) B-E and C-F   (3) A-D
(4) A-E, B-F and C-D   (5) A-D and C-E

Directions (Qs.4-8): In this question a word is given in bold followed by three sentences in which the said word has been used. Read the given sentences carefully and decide in which of the given sentences the word/form of the word given in bold has been correctly used, making the sentence grammatically correct and meaningful.

4. CRUCIAL
   (A) At this crucial time all you can do is pray for the betterment and faster recovery of the people of the state who have been injured.
   (B) It was crucially to revise few of the national policies as they were outdated.
   (C) Though there is hope and positivity in the world the fact cannot be ignored that crucial intentions exist as well.
   (1) Only B and C   (2) Only A and C   (3) Only C
   (4) Only A   (5) All A, B, and C

5. **BENIGN**
   (A) There was recently a study describing how some foods when had with some apparently benign medicines led to extreme consequence.
   (B) The activities of the criminals appeared to be benign in the beginning as they pretended to be local citizens.
   (C) Though her tumour was benign there was no guarantee that it would not erupt again.
   (1) Only A   (2) Only B and C   (3) None of A, B & C
   (4) All A, B and C   (5) Only B

6. **TRANSPARENT**
   (A) Transparency in work and following of work ethic are the most important characteristics that recruiters seek these days.
   (B) It was a highly transparently situation as there was firing from both sides of the border and it did not appear that it would end any time soon.
   (C) Though there were several cases of money laundering in the city, the transparency convicts had not been put behind bars yet.
   (1) All A, B and C   (2) Only B and C   (3) Only C
   (4) Only A and C   (5) Only A

7. **COLLOQUIAL**
   (A) It was the colloquial of the ruling party which made it difficult for the opposition to find anything negative to say about them.
   (B) The colloquialism of a 6-month-old during the journey was not only tiring but also disturbing for the fellow passengers.
   (C) The languages spoken in South Africa by the inhabitants of European descent are English and Dutch, the latter chiefly in the form of a patois colloquially known as the Taal.
   (1) Only B and C   (2) Only A and B   (3) Only A
   (4) All A, B and C   (5) Only C

8. **PRUDENT**
   (A) The prudent banker decided to do a background check before sanctioning the company's loan.
   (B) It is prudent to invest in the stock market provided there is an experienced person guiding you through the highs and lows.
   (C) Nowadays few people from the younger generation are willing to join politics as they feel prudent about the country.
   (1) All A, B and C   (2) Only C   (3) Only A
   (4) Only A and B   (5) Only B

Directions (Qs.9-14): Read the following passage carefully and answer the questions given below it.

Food must go from where it grows in abundance to where it does not. This is where soft commodity trading companies such as Cargill Louis Dreyfus, or COFCO, come in. While 'Big Food' companies such as General Mills or Unilever have **tremendous** global influence on what people eat, trading companies have a much greater impact on food security because they source and distribute our staple foods and the ingredients used by Big Food like rice, wheat, corn and sugar. They also store periodically produced grains and oilseeds so that they can be consumed all round the year and they process soft commodities so that they can be used further down the value chain. For example, wheat needs to be milled into flour to produce bread or noodles, and soybeans must be crushed to produce oil or feed for livestock.

Still, investment in agriculture in most developing countries has declined over the last 30 years and much less is spent on R & D compared to developed countries-resulting in low productivity and stagnant production. First and foremost, efforts must be made to improve agricultural productivity. Farmers, trading companies, and other processing groups need to commit to deforestation-free supply chains. Deforestation causes rapid and irreversible losses of biodiversity, is the second largest source of carbon dioxide emissions after fossil fuels, and has contributed greatly to global warming-adding to the negative pressure on agriculture production. Farmers must also use precision farming tools like GPS fertilizer dispersion, advanced irrigation systems, and environmentally optimized crop rotations in order to produce more crops, especially in countries with large yield gaps. More supportive policies would help create a favourable investment climate for agriculture. Global policy makers, corporations and consumers must put the global food balance higher up the agenda. International business leaders have to better communicate the need for policy changes and for developed countries to **incentivise** investment in regions where there is the most potential for growth. Our food security will depend on these measures.

9. Which of the following can be concluded about food security as per the given passage?
(A) The current food production is adequate to fulfil global demand.
(B) Big Food Companies influence food demand.
(C) The dependence of people on agriculture for earning a livelihood has reduced drastically over time.
(1) Both A and C   (2) Only A   (3) None of A, B & C
(4) All A, B and C   (5) Only B

10. Which of the given words is most **OPPOSITE** of the word **'Tremendous'** given in bold in the passage?
(1) All the given options   (2) durable   (3) insignificant
(4) familiar   (5) gigantic

11. Which of the given words is most **SIMILAR** to the word **'Incentivise'** given in bold in the passage?
(1) voluminous   (2) stabilise   (3) encourage
(4) compromise   (5) All the given options

12. Which of the following is not a message suggested by the author to improve agricultural productivity?
(1) All of those given as options are measures suggested to improve agricultural productivity.
(2) Increasing the use of technology in agriculture
(3) Increasing investment in agriculture
(4) Setting favourable agriculture policies
(5) Reducing the dependency on deforestation in order to clear land for agriculture

13. Which of the following is true as per the given passage?
(1) Investment in agriculture in developing countries has been increasing over time.
(2) Soft commodity trading companies only transport the goods from one place to another
(3) None of the given options is true
(4) The food security of developing countries needs attention.
(5) Developing countries must start cultivating food-grains for all developed countries as well.

14. What does the author want to convey through the example given in the passage?
(1) The raw material should also be produced by Big Food companies in order to make profits.
(2) Soft commodity trading companies feel threatened by the presence of Big Food companies.
(3) Big Food companies need soft commodity trading companies for raw material.
(4) The quality of good depends upon the packaging and not the raw material.
(5) Several Big Food Companies are at a loss today as they are not ready to compromise on the raw material.

Directions (Qs.15-19): In this question a sentence has been given and five words have been given in bold denoted by (A), (B), (C), (D) and (E). You have to decide which of the given pairs correctly indicates the pair of words which should be interchanged to make the sentence grammatically and meaningfully correct without changing the meaning of the sentence. If the sentence is correct as it is and no interchange is required mark 'No interchange required' as the answer.

15. With the **rise** (A)/ in **price** (B)/ of petrol many **employees** (C)/ now **prefer** (D)/ to travel by **sharing** (E) / a car all the way to work.
(1) Only A-C   (2) Only B-E   (3) Only A-B
(4) Both A-D and B-E   (5) No interchange required

16. The brand makes an **activity** (A)/ to the youth, fitness **outdoor** (B)/ and **enthusiasts** (C)/ sportspersons who consider cycling a **leisure** (D)/ and adventure **appeal** (E).
(1) Both A-E and B-C   (2) No interchange required   (3) Only A-C
(4) Both D-E and A-B   (5) Only A-E

17. A plan to **shareholders** (A)/ **funds** (B)/ by selling stakes of the **company** (C)/ to a **billionaire** (D)/ was rejected by the **raise** (E).
(1) Both A-D and B-C   (2) Both A-D and C-E   (3) Only C-D
(4) No interchange required   (5) Only A-E

18. The **managing** (A)/ of the new **appointment** (B)/ director is likely to be for a **period** (C)/ of five years **approvals** (D)/ to various **subject** (E).
(1) Both A-B and D-E   (2) No interchange required   (3) Only B-E
(4) Only A-C   (5) Only A-E

19. With a total **manufacturing** (A)/ **improve** (B)/ of four lakh units per **annum** (C),/the company's production **volume** (D)/ is likely to **capacity** (E)
(1) Only A-C   (2) Only B-E   (3) Both A-D & B-E
(4) No interchange required   (5) Only A-B

Directions (Qs.20-25): Read out the correct sentence with regard to grammar, meaning and usage and mark it as your answer. If none of the given sentences is correct, mark 'None is correct' as the answer. If all the given statements are correct mark 'All are correct' as the answer.

20. (1) When asked about sales growth during the current fiscal the official changed the topic clearly trying to avoid the question.
(2) All are correct
(3) It was when the official was asked about the sales growth during the current fiscal that he tries to change the topic and avoided the question.

(4) The unintentional behaviour of the official suggesting that he tried to avoid the question when asked about sales during the current fiscal.
(5) None is correct

21. (1) None is correct
(2) The agreement between the two companies as per who the sports utility vehicle is developed is likely to hit the market soon.
(3) The two companies have signed an agreement according to which a sports utility vehicle which has been developed is likely to hit the market soon.
(4) A sports utility vehicle develops as per the agreement signed between the two companies is expected to hit the market soon.
(5) The sooner a sports utility vehicle which is likely to hit the market is developed as per an agreement signed by he two companies.

22. (1) The organisers could not believe that their lead actress refused to perform as she had a   family function to attend and hence they were shocking.
(2) All are correct
(3) Had the organisers been in for a shock if their lead actress would have refused to perform on grounds that she had to attend a family function.
(4) The organizers of the show were in for a shock when their lead actress refuses to perform on grounds that she had to attend some family function.
(5) That their lead actress would refuse to perform due to a family function was unexpected for the organisers and hence they were shocked.

23. (1) None is correct
(2) Military helicopters, according to the standard operating procedure, intimating on both sides of the border as before flying over their air space.
(3) According to the standard operating procedure, military helicopters on both sides of the border intimate each other before fly over their air space.
(4) Military helicopters, on both siding of the border, intimate each other before flying over each other's air space according to the standard operating procedure.
(5) According to the standard operating procedure, military helicopters, on both sides of the border, intimating each other before fly over their space.

24. (1) There is a likely of disbursement of more funds in the next few days as per the recent budget announced by the government.
(2) The disbursement of more funds is likely to occurring in the next few days as per the new budget that was released by the government a few days ago.
(3) The more funds being disbursed are likelihood in the next few days as per the new budget announced by the government recently.
(4) None is correct
(5) The likelihood of the new funds for the disbursement to the government was announced in the budget in the next few days.

25. (1) The cultivation of crops with the use of appropriately fertilizers is the requirement for   replenishing soil nutrients.
(2) Using appropriate fertilizers for cultivation of crops is required to replenish soil nutrients.
(3) All are correct
(4) Use of fertilisers which is appropriate is required to replenish the soil nutrients during cultivation.
(5) The soil nutrients which are a use of fertilizers are required for replenishment during cultivation.

Directions (Qs.26-30): Rearrange the given six sentences so that they form a meaningful paragraph and answer the given questions.

(A) Though initially his brokerage account had lost money he refined his system and came up with the idea of a Darvas box, which is actually a precursor to similar momentum-based strategies that some of the best traders use to this day.

(B) Eventually landing in the United States, he and his sister Julia spent much of their time after the war, performing and touring the globe.

(C) He was a professional ballroom dancer, who at the age of twenty-three (in 1943) escaped from Hungary before the Nazis invaded.

(D) Nicolas Darvas could not be more of an outsider, when it cam to the stock market, which may be the reason why he was able to turn $10,000 into $2 million in just 18 months, using an early form of technical analysis.

(E) During these travels, Darvas had plenty of downtime and became fascinated with the stock market, often spending up to eight hours a day reading the classic books of investment strategy.

(F) After reading over 200 books on the subject, Darvas decided to begin investing himself and started buying stocks.

26. Which of the following should be the **FOURTH** sentence after the rearrangement?
(1) C   (2) D   (3) A   (4) E   (5) B

27. Which of the following should be the **SIXTH (LAST)** sentence after the rearrangement?
(1) C   (2) A   (3) F   (4) D   (5) B

28. Which of the following should be the **FIRST** sentence after the rearrangement?
(1) A   (2) E   (3) D   (4) C   (5) F

29. Which of the following should be the **THIRD** sentence after the rearrangement?
(1) F   (2) A   (3) D   (4) C   (5) B

30. Which of the following should be the **SECOND** sentence after the rearrangement?
(1) A   (2) C   (3) E   (4) D   (5) B

QUANTITATIVE APTITUDE

31. A boat takes 630 minutes to travel from Point A to B and then come back to Point A. The distance between Point A and B is 72 km. If the ratio of speed of the boat in still water to the speed of water current is 7 : 1. What is the speed of the boat downstream? (in kmph)
(1) 23   (2) 12   (3) 24   (4) 16   (5) 8

Directions (Qs.32-36): What **approximate** value will come in place of question mark (?) in the given questions? (You are not expected to calculate the exact value.)

32. $\left(\sqrt{\dfrac{25}{9}} - \sqrt{\dfrac{64}{81}}\right) \div \sqrt{\dfrac{16}{324}} = ?$

(1) 4.5   (2) 2.5   (3) 1.5   (4) 3.5   (5) 4

33. $800.11 \times \sqrt{?} - \sqrt{99} = 3995$

(1) 9   (2) 1   (3) 25   (4) 36   (5) 64

34. $749.82 \div 14.89 \times 4.99 = ?^2 \times 10.002$

(1) 5   (2) 2   (3) 10   (4) 3   (5) 1

35. 125% 260 + ?% of 700 = 500

(1) 32   (2) 56   (3) 23   (4) 46   (5) 25

36. $1728 \div \sqrt[3]{262144} \times ? - 288 = 4491$

(1) 148   (2) 156   (3) 173   (4) 177   (5) 185

Directions (Qs.37-42): The questions given below contain two statements numbered I and II giving certain data. You have to decide whether the data given in the statements are sufficient to answer the question.

Give answer (1): if statement **I alone** is sufficient but statement II alone is not sufficient

Give answer (2): if statement **II alone** is sufficient but statement I alone is not sufficient

**Give answer (3):** if either statement I **or** II is sufficient

Give answer (4): if both statements I and II together are **not** sufficient

Give answer (5): If both statement I and statement II **together** are sufficient, but neither of them alone is sufficient

37. A vessel contains 'X' litres of mixture of milk and water. The ratio of milk to water in the vessel is 9 : 4. What is the numerical value of 'X'?
  I. If 40% of the mixture is taken out and 5 litres of water is added, the percentage of water in the resultant mixture will be 40%
  II. If 20% of the mixture is taken out and this action is repeated once more (i.e., 20% of the remaining mixture is taken out) the remaining quantity of milk in the mixture will be 28.8 litres.

38. What is the height of a cylinder? (in metre)
  I. The volume of the cylinder is 4158 m^3
  II. The total surface area of the cylinder is 1458 m^2

39. In how many days can A, B and C together finish a piece of work?

    I.   A and B together can finish the same piece of work in $8\frac{2}{3}\,days$. B and C together can finish the same piece of work in $13\frac{1}{3}\,days$. C and A together can finish the same piece of work in $11\frac{3}{7}\,days$.

    II. The time taken by A alone to finish the same piece of work is 24 days less than the time taken by C alone to finish the same piece of work.

40. What is the value of $\frac{a}{b}$?

    I.   The value of a – b is 3. The value of $a^2 - b^2$ is 45.
    II. The value of a + b is 15.

41. In a 160 litre mixture of milk and water, the percentage of water is only 35%. The milkman gave 40 litre of this mixture to a customer and then added 'X' litres of pure milk to the remaining mixture. As a result the percentage of water in the final mixture becomes 30%. What is the value of 'X'?
    (1) 20   (2) 25   (3) 30   (4) 15   (5) 10

42. Two stations, A and B, are 677 km apart from each other. One train starts from Station A at 2 pm and travels towards station B at 59 kmph. Another train starts from station B at 3.30 pm and travel towards station A at 48 kmph. How far from station B will the two trains meet? (in km)
    (1) 264   (2) 256   (3) 272   (4) 286   (5) 252

Directions (Qs.43-47): Refer to the graph and answer the given questions:
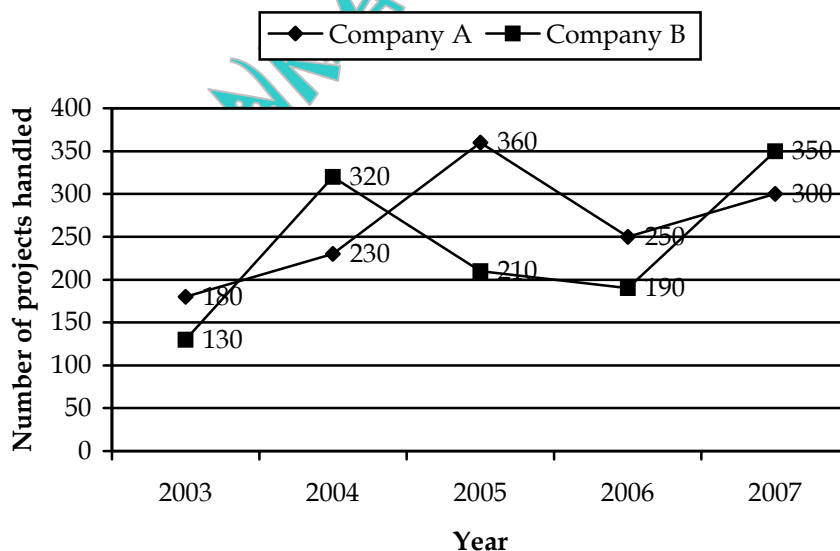
43. Out of the total number of projects handled by Company A in 2005 and 2006 together, 20% were governmental projects. What was the total number of governmental projects handled by company A in 2005 and 2006 together?
    (1) 108   (2) 132   (3) 128   (4) 116   (5) 122

44. The number of projects handled by Company B decreased by what percent from 2004 to 2006?

(1) $35\frac{5}{8}$ (2) $30\frac{7}{8}$ (3) $50\frac{3}{8}$ (4) $45\frac{3}{8}$ (5) $40\frac{5}{8}$

45. The project handled by a company can be broadly classified into types – Governmental projects and Non-governmental projects. If the average number of non-governmental projects handled by Company B in 2003 and 2004 is 127 then what is the total number of governmental projects handled by the same company in 2003 and 2004 together?

(1) 204 (2) 188 (3) 192 (4) 196 (5) 212

46. If the number of projects handled by Company A increased by 20% from 2007 to 2008 and by 5% from 2008 to 2009, then what was the number of projects handled by Company A in 2009?

(1) 378 (2) 372 (3) 384 (4) 396 (5) 368

47. What is the difference between the total number of projects handled by Company A in 2003 and 2004 together and the total number of projects handled by Company B in 2005 and 2007 together?

(1) 120 (2) 150 (3) 130 (4) 180 (5) 170

48. There are two bags A and B. Bag A contains 6 red balls and 10 green balls and Bag B contains 4 red balls and 6 green balls. One bag is selected at random. From the selected bag one ball is drawn at random. What is the probability that the ball drawn is red?

(1) $\frac{27}{80}$ (2) $\frac{31}{80}$ (3) $\frac{39}{80}$ (4) $\frac{29}{80}$ (5) $\frac{33}{80}$

Directions (Qs.49-53): Read the following information given in the passage and answer the given questions.

There are 'X' number of students in a college. Each of them likes either one or more of the following types of movies – Hollywood, Bollywood and Regional. The ratio of male to female students is 9 : 7. 16% of the male students like only Hollywood movies. 22% like only Bollywood movies. 12% like only Regional movies. 30% of the male students like only Hollywood and Bollywood movies. 10% like only Bollywood and Regional movies and 6% like only Regional and Hollywood movies. The remaining 18 male students like all the given type of movies.

14% of the female students like only Hollywood movies. 20% like only Bollywood movies. 8% like only Regional movies. 26% of the female students like only Hollywood and Bollywood movies. 18% like only Bollywood and Regional movies and 10% like only Regional and Hollywood movies. The remaining female students like all the given type of movies.

49. What is the difference between the number of male students who like Bollywood movies and the number of female students who like the same?

(1) 69 (2) 59 (3) 63 (4) 65 (5) 57

50. The number of students (both male and female) who like all the given types of movies is approximately what percent of the number of female students who like only one of the given type of movies?

(1) 12   (2) 18   (3) 32   (4) 28   (5) 22

51. The number of male students who like only two of the given types of movies is what percent more than the number of female students who like only two of the given types of movies?

(1) $11\frac{1}{21}$ (2) $16\frac{1}{7}$ (3) $9\frac{11}{21}$ (4) $8\frac{1}{7}$ (5) $13\frac{11}{14}$

52. What is the ratio of the number of female students who like Hollywood movies to the number of male students who like the same?

(1) 9 : 14   (2) 3 : 4   (3) 5 : 8   (4) 5 : 6   (5) 7 : 8

53. What is the value of 'X' (mentioned in the passage)?

(1) 960   (2) 800   (3) 640   (4) 720   (5) 880

54. The ratio of the present age of P and Q is 5 : 7. The ratio of P's age 4 years ago to Q's age 10 years hence is 1 : 2. What will be the ratio of P's age 2 years hence to Q's age 6 years hence?

(1) 2 : 3   (2) 1 : 3   (3) 7 : 8   (4) 5 : 6   (5) 3 : 4

Directions (Qs.55-59): What will come in place of question mark (?) in the given number series?

55. 150 29 372 347 374 ?

(1) 378   (2) 290   (3) 370   (4) 280   (5) 372

56. 10 12 17 28 57 ?

(1) 142   (2) 140   (3) 130   (4) 158   (5) 136

57. 4 14 24 39 69 ?

(1) 152   (2) 164   (3) 184   (4) 144   (5) 122

58. 158 78 38 18 8 ?

(1) 3   (2) 5   (3) 2   (4) 7   (5) 6

59. 16 19 24 33 50 ?

(1) 83   (2) 66   (3) 99   (4) 74   (5) 102

60. A bank offers 5% compound interest calculated on a half-yearly basis. A customer deposits Rs.1600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is how much?

(1) Rs.120   (2) Rs.121   (3) Rs.123   (4) Rs.122   (5) Rs.119

Directions (Qs.61-65): Based on the following table, answer the given questions.

The data given in the table is for the month of March in 2015.

Company	Total number of employees	Number of female employees
A	5550	2410
B	3200	1860
C	2000	1600
D	2500	1220
E	4240	2600
F	3560	1240

61. The number of male employees in Company D is what percent less than the number of female employees in Company C?
(1) 12   (2) 15   (3) 20   (4) 22   (5) 18

62. What is the average number of female employees in Company A, C and F?
(1) 1750   (2) 1720   (3) 1710   (4) 1730   (5) 1760

63. What is the difference between the number of male employees in company A and that in company F?
(1) 840   (2) 810   (3) 820   (4) 740   (5) 790

64. If in April 2015, the number of female employees in Company E increased by 10% and the number of total employees in the company remained the same, what was the number of male employees?
(1) 1430   (2) 1420   (3) 1410   (4) 1360   (5) 1380

65. The total number of female employees in Company B and F together is what percent of the total number of employees in Company D?
(1) 124   (2) 122   (3) 125   (4) 134   (5) 135

REASONING ABILITY

66. If it is possible to make only one meaningful English word with the first, the sixth, the ninth and the tenth letter. (when counted from left to right) of the word 'JUNCTIONAL', using each letter only once, which would be the third letter of that word from the left end? If more than one such word can be formed, give 'X' as the answer. If no such word can be formed, give Z as your answer.
(1) Z   (2) I   (3) X   (4) L   (5) A

Directions (Qs.67-71): Study the following information carefully to answer the given questions:

Ten boxes are kept in a stack one above the other but not necessarily in the order. Only five boxes are kept between M and N. Only three boxes are kept between N and Q. As many boxes are kept between M and Q as between M and S. W is kept immediately above S. The number of boxes kept above W is one less than the number of boxes kept below T. T is not kept at the top of the stack. V is kept immediately above P. Only two boxes are kept between P and O. R is kept at one of the positions above O.

67. Which of the following boxes is kept immediately above and immediately below box O respectively?
(1) P and Q
(2) M and W
(3) M and Q
(4) W and N
(5) N and P

68. Which of the following statements is not true as per the given arrangement?
(1) All the given statements are true
(2) Only two boxes are kept between V and N
(3) R is kept immediately above M
(4) Only one box is kept above S
(5) P is kept at the third position from the bottom of the stack

69. What is the position of O in the given stack of boxes?
(1) Fourth from the top
(2) Second from the bottom
(3) Fifth from the top
(4) Fifth from the bottom
(5) Fourth from the bottom

70. T is related to V and O is related to R following a certain pattern based on the given arrangement. Which of the following is Q related to following the same pattern?
(1) N   (2) M   (3) W   (4) T   (5) P

71. How many boxes are kept between R and S?
(1) Four   (2) One   (3) Three   (4) Two   (5) None

Directions (Qs.72-76): Study the following information carefully and answer the given questions.

Each of eight people A, B, C, D, E, F, G and H visit Mumbai in one of the given months – January, February, March, April, May, June, July and August of the same year.

Note: Only one person visits Mumbai in each month. No other person visits Mumbai in any other month of the same year.

Only three people visit Mumbai before A. Only two people visit Mumbai between A and B. C visits Mumbai immediately after B. More than four people visit Mumbai between C and D. Only two people visit Mumbai between D and E. F visits Mumbai in one of the months before E but not in January. H visits Mumbai immediately after G.

72. Which of the following statements is **TRUE** as per the given information?
   (1) Only two people visit Mumbai between D and G.
   (2) No one visits Mumbai after E.
   (3) None of the given statements is true
   (4) A visits Mumbai in one of the months after F.
   (5) C visits Mumbai in April

73. As per the given information, who amongst the following visits Mumbai in July?
   (1) E   (2) C   (3) G   (4) D   (5) H

74. As per the given information, how many people visit Mumbai between C and G?
   (1) Two   (2) Three   (3) One   (4) None   (5) More than three

75. In which month does D visit Mumbai?
   (1) May   (2) June   (3) February
   (4) August   (5) January

76. Four of the following five are alike in a certain way based on the given information and thus form a group. Identify the one which does not belong to the group.
   (1) June-E   (2) May-A   (3) April-C
   (4) February-B   (5) August-H

Directions (Qs.77-79): Study the following information carefully to answer the given questions.

Point J is 13m to the west of Point K. Point K is 7m to the south of point L. Point M is 4m to the east of Point L. Point N is 20m to the south of Point M.

Sudha starts walking from Point B towards south. She walks for a distance of 9m, takes a right turn and walks for a distance of 8m to reach point N.

77. In which direction is Point L with respect to Point B?
   (1) West   (2) North   (3) South-east (4) North-west (5) North-east

78. Point W is to the west of Point N and also to the south of Point K. What is the difference between WN and WK?
   (1) 9m   (2) 11m   (3) 7m   (4) 13m   (5) 4m

79. Point Z is 8m to the west of Point B. How far and in which direction is Point M with respect to Point Z?
(1) 7m towards North
(2) 13m towards East
(3) 13m towards South
(4) 11m towards South
(5) 11m towards North

80. Six people S, T, U, V, W and X were born on six different days of the same week starting from Tuesday and ending on Sunday. V was born on Thursday. Only one person was born between V and X. S was born immediately after X. As many people were born after S as before T. Only two people were born between T and U. How many people were born after U?
(1) Two   (2) One   (3) Three   (4) None   (5) More than three

81. Four of the following five are alike in a certain way as per the English alphabetical order and so form a group. Which is the one that does not belong to that group?
(1) HFBD   (2) PNJL   (3) XWTV   (4) OMIK   (5) YWSU

Directions (Qs.82-86): Study the following information carefully and answer the given questions below.

Twelve people are sitting in two parallel rows containing six people each, in such a way that there is equal distance between adjacent persons. In row- 1 T, U, V, W, X, and Y are seated (not necessarily in the same order) and all of them are facing south. In row-2 A, B, C, D, E and F are seated (not necessary in the same order) and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row.

V sits second from one of the extreme ends of the row. Only three people sit between the one who faces V and E. As many people sit to the left of E as to the right of B. T sits second to the right of X. Neither X nor T is an immediate neighbour of V. The one who faces A sits on the immediate right of T. Only one person sits between A and F. Neither U nor Y faces F. W faces an immediate neighbour of D. Y does not sit at either of the extreme ends of the row.

82. How many people sit between C and the one who faces Y?
(1) Three   (2) None   (3) Four   (4) One   (5) Two

83. Who amongst the following faces U?
(1) E   (2) C   (3) F   (4) A   (5) B

84. Who amongst the following sits third to the left of Y?
(1) U
(2) V
(3) The one who faces E
(4) W
(5) The one who faces B

85. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which is the one that does not belong to that group?
(1) X   (2) U   (3) T   (4) B   (5) E

86. Which of the given statement (s) is/are true with respect to the given information?
(i) Only one person sits between W and Y.
(ii) A is an immediate neighbour of C.
(iii) D faces an immediate neighbour of U.
(1) Both (i) and (ii)   (2) Both (i) and (iii)   (3) Only (ii)
(4) Only (iii)   (5) None of the given statements is true

Directions (Qs.87-89): Study the following information carefully and answer the given questions.

Each of the six friends P, Q, R, S, T and U is of a different age. P is older than Q but younger than T. Q is older than U. U is not the youngest. R is older than Q but not the oldest. The one who is the second oldest is 42 years old and the one who is the second youngest is 24 years old.
(Note: All ages are in whole numbers only.)

87. If the sum of the ages of U and P is 52 years then what will be the sum of the ages of R and P? (in years)
(1) 64   (2) 60   (3) 66   (4) 70   (5) 72

88. As per the given information, what may be the probable age of T?(in years)
(1) 40   (2) 28   (3) 30   (4) 44   (5) 36

89. Who amongst the following is the third youngest?
(1) Q   (2) U   (3) S   (4) T   (5) P

Directions (Qs.90-92): Study the following information carefully and answer the given questions:

J is the father of S. J has only one child. D is sister-in-law of S. K is the only sibling of D. D is unmarried. M is mother of K. H is grandson of M. L is sister of H.

90. How is L related to D?
(1) Mother   (2) Sister-in-law   (3) Daughter
(4) Niece   (5) Aunt

91. If T is grandfather of L then how is K related to T?
(1) Son-in-law   (2) Niece   (3) Nephew
(4) Can't say   (5) Daughter-in-law

92. How is J related to H?
(1) Father   (2) Father-in-law   (3) Brother
(4) Grandfather   (5) Uncle

Directions (Qs.93-95): In this question, two/three statements followed by two conclusions numbered I and II have been given. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements.

93. **Statements:** All ratios are norms
    Some norms are tables

    Conclusions: I. No table is a ratio
    II. All tables are norms

    (1) **Only** conclusion **I** follows
    (2) **Only** conclusion **II** follows
    (3) **Either** conclusion I **or** II follows
    (4) **Neither** conclusion I **nor** II follows
    (5) **Both** conclusions I **and** II follow

94. **Statements:** No deer is a lion
    Some lions are tigers
    All lions are horses

    Conclusions: I. All tigers being deer is a possibility
    II. At least some tigers are horses

    (1) **Only** conclusion **I** follows
    (2) **Only** conclusion **II** follows
    (3) **Either** conclusion I **or** II follows
    (4) **Neither** conclusion I **nor** II follows
    (5) **Both** conclusions I **and** II follow

95. **Statements:** No deer is a lion
    Some lions are tigers
    All lions are horses

    Conclusions: I. All deers being horse is a possibility
    II. All horses are lions

    (1) **Only** conclusion **I** follows
    (2) **Only** conclusion **II** follows
    (3) **Either** conclusion I **or** II follows
    (4) **Neither** conclusion I **nor** II follows
    (5) **Both** conclusions I **and** II follow

96. Six people – A, B, C, D, E and F- are sitting around a circular table facing the centre. Only two people sit between B and E. C is an immediate neighbour of E. D sits second to the right of C. What is the position of A with respect to D?
    (1) Can't say
    (2) Immediate left
    (3) Second to the right
    (4) Fourth to the left
    (5) Second to the left

Directions (Qs.97-100): Study the following information carefully to answer the given questions.

A certain number of people are sitting in a straight line facing north with equal distance between each other. Only five people sit between A and B. B sits fifth to the right of C. D sits fourth to the right of C. D sits third from one of the extreme ends of the line. The one who likes Red colour sits seventh to the left of D. Only eight people sit between the one who likes Red colour and the one who likes Blue colour. The one who likes Blue colour sits at the extreme left end of the line. The one who likes Yellow colour sits to the immediate right of the one who likes Blue colour. Only seven people sits between the one who likes Yellow colour and E. The one who likes Orange colour sits sixth to the right of E. Only seven people sit between E and F.

97. How many people sit between A and the one who likes Yellow colour?
- (1) Six
- (2) Five
- (3) Seven
- (4) Nine
- (5) Three

98. As per the given arrangement, F is related to the one who likes Blue colour in the same way as B is related to D following a certain pattern. Following the same pattern, who is C related to?
- (1) The one who likes Orange colour
- (2) A
- (3) F
- (4) The one who likes Red colour
- (5) B

99. What is the positions of B with respect to the one who likes Orange colour?
- (1) Fifth to the left
- (2) Third to the left
- (3) Second to the right
- (4) Seventh to the left
- (5) Ninth to the right

100. How many people are sitting in the given line?
(1) 23   (2) 18   (3) 19   (4) 21   (5) 15

ANSWER WITH EXPLANATION:

1. **Ans (5):** A-F and C-E

2. **Ans (1):** C-D

3. **Ans (3):** A-D

4. **Ans (4):** Only A

5. **Ans (4):** All A, B and C

6. **Ans (4):** Only A and C

7. **Ans (5):** Only C

8. **Ans (4):** Only A and B

9. **Ans (5):** Only B

10. **Ans (3):** insignificant

11. **Ans (3):** encourage

12. **Ans (1):** All of those given as options are measures suggested to improve agricultural productivity

13. **Ans (4):** The food security of developing countries needs attention

14. **Ans (3):** Big Food companies need soft commodity trading companies for raw material

15. **Ans (5):** No interchange required

16. **Ans (1):** Both A-E and B-C

17. **Ans (5):** Only A-E

18. **Ans (1):** Both A-B and D-E

19. **Ans (2):** Only B-E

20. **Ans (1):** When asked about sales growth during the current fiscal the official changed the topic clearly trying to avoid the question

21. **Ans (3):** The two companies have signed an agreement according to which a sports utility vehicle which has been developed is likely to hit the market soon

22. **Ans (5):** That their lead actress would refuse to perform due to a family function was unexpected for the organisers and hence they were shocked

23. **Ans (1):** None is correct

24. **Ans (4):** None is correct

25. Ans (2): Using appropriate fertilizers for cultivation of crops is required to replenish soil nutrients

For (Qs.26-30): DCBEFA

26. Ans (4): E

27. Ans (2): A

28. Ans (3): D

29. Ans (5): B

30. Ans (2): C

31. <u>Ans (4): 16</u>
Downstream speed = $7x + x = 8x$
Upstream speed = $7x - x = 6x$
$$\frac{72}{6x} + \frac{72}{8x} = \frac{630}{60} \Rightarrow \frac{12}{x} + \frac{9}{x} = \frac{21}{2} \Rightarrow \frac{21}{x} = \frac{21}{2} \Rightarrow x = 2$$
∴ Downstream speed = $8 \times 2 = 16$ kmph

32. <u>Ans (4): 3.5</u>
$$? = \left(\sqrt{\frac{25}{9}} - \sqrt{\frac{64}{81}}\right) \div \sqrt{\frac{16}{324}} = \left(\frac{5}{3} - \frac{8}{9}\right) \div \frac{4}{18} = \left(\frac{15-8}{9}\right) \times \frac{18}{4} = \frac{7}{9} \times \frac{18}{4} = \frac{14}{4} = 3.5$$

33. <u>Ans (3): 25</u>
$$800 \times \sqrt{?} - \sqrt{100} \approx 3995 \Rightarrow 800 \times \sqrt{?} = 4005 \Rightarrow \sqrt{?} \approx 5$$
∴ ? = $5 \times 5 = 25$

34. <u>Ans (1): 5</u>
$$?^2 \times 10 \approx \frac{750}{15} \times 5 \Rightarrow ?^2 = \frac{750 \times 5}{15 \times 10} = 25 \Rightarrow ? = 5$$

35. <u>Ans (5): 25</u>
$$\frac{5}{4} \times 260 + \frac{?}{100} \times 700 = 500 \Rightarrow 5 \times 65 + ? \times 7 = 500 \Rightarrow ? = \frac{500-325}{7} = \frac{175}{7} = 25$$
∴ ? = 25

36. <u>Ans (4): 177</u>
$$1728 \div \sqrt[3]{262144} \times ? - 288 = 4491 \Rightarrow \frac{1728}{64} \times ? = 4779$$
$$\Rightarrow 27 \times ? = 4779 \Rightarrow ? = \frac{4779}{27} = 177$$

37. <u>Ans (3): either statement I or II is sufficient</u>

From statement I, $\frac{Milk}{Water} = \frac{9x - \frac{18}{5}x}{4x - \frac{8}{5}x + 5} = \frac{60}{50} \Rightarrow \frac{9x}{12x + 25} = \frac{1}{2} \Rightarrow x = \frac{25}{6}$

∴ X $= 13 \times \frac{25}{6} = 54.18$ litre

From statement II, $\dfrac{80}{100} \times \dfrac{80}{100} \times x = \dfrac{16x}{25}$

$\dfrac{16x}{25} \times \dfrac{9}{13} = 28.8 \Rightarrow x = \dfrac{28.8 \times 25 \times 13}{16 \times 9} = 65$ litre

38. __Ans (4): both statements I and II together are not sufficient__

From statement I and II,

Volume of the cylinder $= \pi r^2 h = 4158 m^3$

Total surface area of cylinder $= 2\pi r\,(h + r) = 1485\,m^2$

$\therefore \dfrac{\pi r^2 h}{2\pi r(h+r)} = \dfrac{rh}{2(h+r)}$

Cannot find the value of h.

39. __Ans (1): statement I alone is sufficient but statement II alone is not sufficient__

From Statement I,

$2(A+B+C) = 8\dfrac{2}{3} + 13\dfrac{1}{3} + 11\dfrac{3}{7} = \dfrac{26}{3} + \dfrac{40}{3} + \dfrac{80}{7} = 22 + \dfrac{80}{7} = \dfrac{234}{7}$

$\therefore (A+B+C) = \dfrac{234}{7 \times 2} = 16\dfrac{5}{7}$ days

From statement II,

Nothing has been said about B.

Hence II alone is not sufficient to answer the question.

40. __Ans (1): statement I alone is sufficient but statement II alone is not sufficient__

From statement I,

$a - b = 3 \to$ (i)

$a^2 - b^2 = 45 \Rightarrow (a + b)(a - b) = 45 \Rightarrow (a + b) \times 3 = 45$

$\Rightarrow a + b = 15 \to$ (ii)

Solving equation (i) and (ii)

$a = 9; b = 6$

$\therefore$ Required value $= \dfrac{a}{b} = \dfrac{9}{6} = \dfrac{3}{2}$

41. __Ans (1): 20__

Mixture $\Rightarrow$ Milk : Water

160 litre $\Rightarrow$ 65% : 35%

Ratio $\Rightarrow$ 13 : 7

Quantity of water in 160 litre mixture $= \dfrac{160}{13+7} \times 7 = 56$ litre
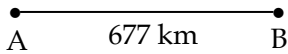
Again, Quantity of milk in 40 litre mixture $= \dfrac{40}{20} \times 13 = 26$ litre

Quantity of water in 40 litre mixture $= \dfrac{40}{20} \times 7 = 14$ litre

$\dfrac{56-14}{104-26+x} = \dfrac{3}{7} \Rightarrow \dfrac{42}{78+x} = \dfrac{3}{7} \Rightarrow 3x + 234 = 294$

$3x = 294 - 234 = 60 \Rightarrow x = 20$ litre

42. Ans (1): 264

A •————— 677 km —————• B

Train covers distance from Point A in (3.30 − 2.00) = 1 hours 30 minutes or $\frac{3}{2}$ hour is, $59 \times \frac{3}{2} = 88.5$ km

∴ Remaining distance = 677 − 88.5 = 588.5 km

They meet after, $\left(\frac{588.5}{59+48}\right) = \frac{588.5}{107} = 5.5$ hours

From Point B the train covers distance at the speed 48 kmph in 5.5 hours = 5.5 × 48 = 264 km

43. Ans (5): 122

Total number of Governmental projects handled by Company A in 2005 and 2006

together = 20% of (360 + 250) = $\frac{1}{5} \times 610 = 122$

44. Ans (5): $40\frac{5}{8}$

Required percentage $= \frac{320-190}{320} \times 100 = \frac{130}{320} \times 100 = \frac{1300}{32} = \frac{325}{8}\% = 40\frac{5}{8}\%$

45. Ans (4): 196

Total no. of Non-governmental projects handled by Company B in 2003 an 2004 together = 127 × 2 = 254

∴ Total number of Governmental projects handled by Company B in 2003 and 2004 = (130 + 320) − 254 = 450 − 254 = 196

46. Ans (1): 378

Total number of projects handled by

Company A in 2009 $= 300 \times \frac{120}{100} \times \frac{105}{100} = 18 \times 21 = 378$

47. Ans (2): 150

Required difference = (210 + 350) − (180 + 230) = 560 − 410 = 150

48. Ans (2): $\frac{31}{80}$

Required probability $= \frac{1}{2}\left(\frac{{}^{6}C_1}{{}^{16}C_1} + \frac{{}^{4}C_1}{{}^{10}C_1}\right) = \frac{1}{2}\left(\frac{6}{16} + \frac{4}{10}\right) = \frac{31}{80}$

For (Qs.49-53):

All the three types of movies like by male students
= 100 − (16 + 22 + 12 + 30 + 10 + 6) = 100 − 96 = 4%

Total Male students $= \frac{100}{4} \times 18 = 450$

∴ Total female students $= \frac{7}{9} \times 450 = 350$

Movies	Male (450)	Female (350)
Only Hollywood	16% of 450 = 72	14% of 350 = 49
Only Bollywood	22% of 450 = 99	20% of 350 = 70
Only Regional	12% of 450 = 54	8% of 350 = 28
Only (H + B)	30% of 450 = 135	26% of 350 = 91
Only (B + R)	10% of 450 = 45	18% of 350 = 63
Only (R + H)	6% of 450 = 27	10% of 350 = 35
All (H + R + B)	4% of 450 = 18	4% of 350 = 14

49. **Ans (2): 59**

Required difference = (99 + 135 + 45 + 18) − (70 + 91 + 63 + 14) = 297 − 238 = 59

50. **Ans (5): 22**

$$\text{Required\%} = \frac{18 + 14}{49 + 70 + 28} \times 100 = \frac{32}{147} \times 100 = 21.76\% \approx 22\%$$

51. **Ans (3):** $9\frac{11}{21}$

$$\text{Required percentage} = \frac{(135 + 45 + 27) - (91 + 63 + 35)}{91 + 63 + 35} \times 100 = \frac{207 - 189}{189} \times 100$$

$$= \frac{18}{189} \times 100 = \frac{200}{21}\% = 9\frac{11}{21}\%$$

52. **Ans (2): 3 : 4**

$$\text{Required ratio} = \frac{49 + 91 + 35 + 14}{72 + 135 + 27 + 18} = \frac{189}{252} = 3 : 4$$

53. **Ans (2): 800**

Total number of students (X) = 350 + 450 = 800

54. **Ans (1): 2 : 3**

Let the present ages of P and Q be $5x$ and $7x$ respectively.

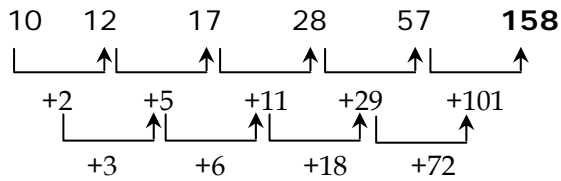$$\frac{5x - 4}{7x + 10} = \frac{1}{2} \Rightarrow 10x - 8 = 7x + 10 \Rightarrow 3x = 18 \Rightarrow x = 6$$

∴ Required ratio = (5x + 2) : (7x + 6) = 32 : 48 = 2 : 3

55. **Ans (3): 370**
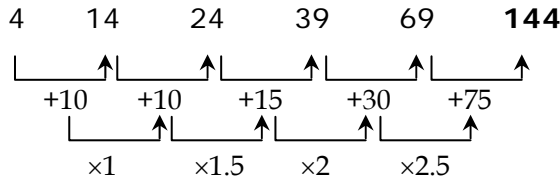
150   29   372   347   374   **370**

$-(11)^2 \quad +(7)^3 \quad -(5)^2 \quad +(3)^3 \quad -(2)^2$

56. **Ans (4): 158**

```
 10    12     17     28     57    158
  |____↑|____↑|____↑|____↑|____↑
   +2     +5    +11    +29    +101
     |___↑|___↑|___↑|___↑
       +3     +6    +18    +72
```

57. **Ans (4): 144**

```
  4    14     24     39     69    144
  |____↑|____↑|____↑|____↑|____↑
   +10    +10    +15    +30    +75
     |___↑|___↑|___↑|___↑
       ×1    ×1.5    ×2    ×2.5
```

58. **Ans (1): 3**

```
 158   78     38     18     8      3
  |____↑|____↑|____↑|____↑|____↑
  ÷2−1   ÷2−1   ÷2−1   ÷2−1   ÷2−1
```

59. **Ans (1): 83**

```
 16    19     24     33     50     83
  |____↑|____↑|____↑|____↑|____↑
   +3     +5     +9    +17    +33
     |___↑|___↑|___↑|___↑
       +2     +4     +8    +16
```
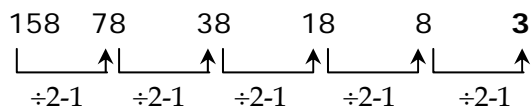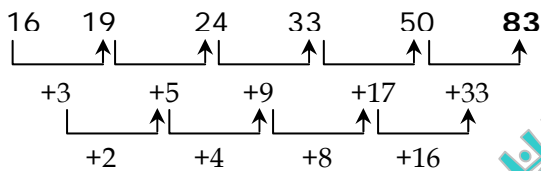
60. **Ans (2): Rs.121**

Rate of interest $= \dfrac{5}{2} = 2.5\%$

In January,

Principal $= 1600$

25% (1st half year) $= \underline{40}$

1640

2.5% (2nd half year) $= \underline{41}$

1681

∴ C.I $= 1681 - 1600 = $ Rs.81

In July,

Principal $= 1600$

25% (2st half year) $= \underline{40}$

1640

∴ C.I $= 1640 - 1600 = 40$

∴ Total interest $= 81 + 40 = $ Rs.121

61. **Ans (3): 20**

Required percentage

$= \dfrac{1600 - (2500 - 1220)}{1600} \times 100 = \dfrac{1600 - 1280}{1600} \times 100 = \dfrac{320}{1600} \times 100 = 20\%$

62. **Ans (1): 1750**

Required average $= \dfrac{2410+1600+1240}{3} = \dfrac{5250}{3} = 1750$

63. **Ans (3): 820**

Required difference $= (5550 - 2410) - (3560 - 1240) = 3140 - 2320 = 820$

64. **Ans (5): 1380**

Required no of male employees in April 2015 in E,

$= 4240 - \left(2600 \times \dfrac{110}{100}\right) = 4240 - 2860 = 1380$

65. **Ans (1): 124**

Required percentage $= \dfrac{1860+1240}{2500} \times 100 = \dfrac{3100}{2500} \times 100 = 124\%$

66. **Ans (2): I**

J U N C T **I** O N **A** L
Meaningful word = JA**I**L

For (Qs.67-71):

Position	Box
10	W
9	S
8	R
7	M
6	O
5	Q
4	V
3	P
2	T
1	N

67. **Ans (3): M and Q**

M lives immediately above box O and Q lives immediately below box O.

68. **Ans (1):** All the given statements are true

69. **Ans (3): Fifth from the top**

Box O is fifth from the top

70. **Ans (2): M**

Box V is two boxes above from Box T. Box R is two boxes above from Box O. In the same way, Box M is two boxes above from Box Q.

71. **Ans (5): None**

No Box kept between Box R and S.

For (Qs.72-76):

Month	Person
January	B
February	C
March	F
April	A
May	E
June	G
July	H
August	D

72. **Ans (4): A visits Mumbai in one of the months after F**
Only one person visits Mumbai between D and G. Three persons visit Mumbai after E. C visits Mumbai in February.

73. **Ans (5): H**
H visits Mumbai in July

74. **Ans (2): Three**
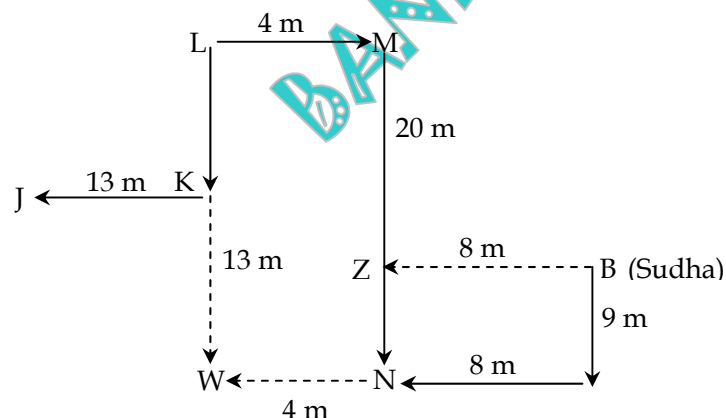Three persons F, A and E visit Mumbai between C and G.

75. **Ans (4): August**
D visits Mumbai in August

76. **Ans (3): April-C**
In April C, there is one person visits between them.

For (Qs.77-79):

77. **Ans (4): North-west**
Point L is North-West direction of point B

78. **Ans (1): 9 m**
WN = 4m; WK= 13m
Required difference = 13 − 4 = 9 m

79. Ans (5): 11m towards North

Point M is 11m towards North from point Z.

80. Ans (1): Two
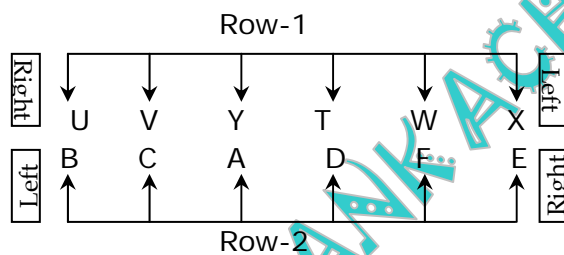
Day	Person
Tuesday	T
Wednesday	W
Thursday	V
Friday	U
Saturday	X
Sunday	S

Thus, two persons were born after U.

81. Ans (3): XWTV

$$H \xrightarrow{-2} F \xrightarrow{-4} B \xrightarrow{+2} D$$
$$P \xrightarrow{-2} N \xrightarrow{-4} J \xrightarrow{+2} L$$
$$\mathbf{X} \xrightarrow{-1} \mathbf{W} \xrightarrow{-3} \mathbf{T} \xrightarrow{+2} \mathbf{V}$$
$$O \xrightarrow{-2} M \xrightarrow{-4} I \xrightarrow{+2} K$$
$$Y \xrightarrow{-2} W \xrightarrow{-4} S \xrightarrow{+2} U$$

For (Qs.82-85):

Row-1

Right	U	V	Y	T	W	X	Left

| Left | B | C | A | D | F | E | Right |

Row-2

82. Ans (2): None

A faces Y. C and A are immediate neighbours, no one sits between them.

83. Ans (5): B

B faces U

84. Ans (3): The one who faces E

X sits third to the left of Y. X faces E.

85. Ans (3): T

Except T, all others sit at extreme ends of the line.

86. Ans (1): Both (i) and (ii)

D faces T. T sits third to the left of U.

For (Qs.87-89):

T > R (42) > P > Q > U (24) > S (or) T > P (42) > R > Q > U (24) > S

87. **Ans (4): 70**
    U + P = 52 ⇒ 24 + P = 52 ⇒ P = 28 Years
    Sum of the ages of R and P = 42 + 28 = 70 years.

88. **Ans (4): 44**
    T > 42
    ∴ The probable age of T = 44

89. **Ans (1): Q**
    Q is third youngest

For (Qs.90-92):

$$J(+) \quad M(-) \Leftrightarrow T(+)$$
$$| \qquad |$$
$$S \Leftrightarrow K \text{ —— } D(-)$$
$$|$$
$$L(-) \text{ —— } H(+)$$

90. **Ans (4): Niece**
    L is niece of D

91. **Ans (4): Can't say**
    Gender of K is not known. K is either daughter or son of T.
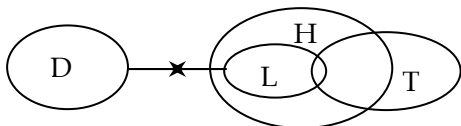
92. **Ans (4): Grandfather**
    J is grandfather of H.

93. **Ans (4): neither conclusion I nor II follows**
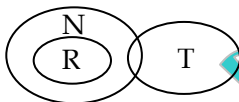
Conclusions: I. No table is a ratio (✗)
                 II. All tables are norms (✗)

For (Qs.94-95):
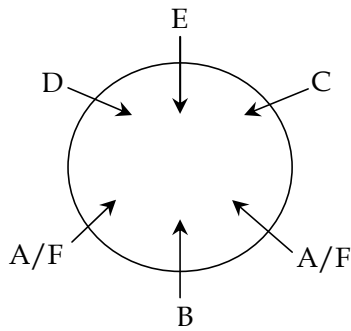

94. **Ans (2): only conclusion II follows**
    Conclusions: I. All tigers being deer is a possibility (✗)
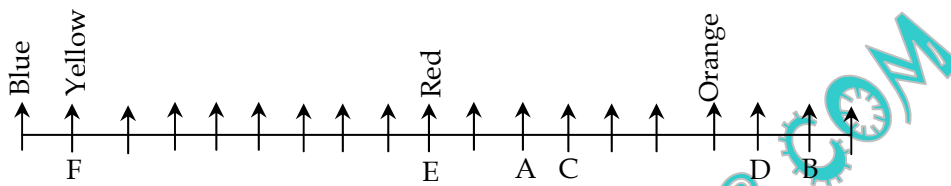   II. At least some tigers are horses (✓)

95. **Ans (1): only conclusion I follows**
    Conclusions: I. All deer being horse is a possibility (✓)
                        II. All horses are lions (✗)

96. **Ans (1): Can't Say**

For (Qs.97-100):

97. **Ans (4): Nine**

F likes Yellow colour. Nine persons sit between A and F

98. **Ans (2): A**

F sits to the immediate right of the one who likes Blue colour. B sits to the immediate right of D. In the same way, C sits to the immediate right of A.

99. **Ans (3): Second to the right**

B sits second to the right of one who likes orange colour.

100. **Ans (3): 19**

19 people are sitting in the line.

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